

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFFSMAN |           |          |

# FIG. 1A

## Consensus Sequence

Symbol comparison table: blosum62.cmp CompCheck: 6430

|                                  |     |        |      |         |      |
|----------------------------------|-----|--------|------|---------|------|
| Name : <u>hTRADEalpha_1</u> Len: | 423 | Check: | 4050 | Weight: | 1.00 |
| Name : <u>hTRAIN_1</u> Len:      | 423 | Check: | 4128 | Weight: | 1.00 |
| Name : <u>hTRADEbeta_1</u> Len:  | 423 | Check: | 7937 | Weight: | 1.00 |
| Name : <u>hApo420pep</u> Len:    | 423 | Check: | 8173 | Weight: | 1.00 |

/ /

|               |   |
|---------------|---|
| 1             | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |
| hTRADEalpha_1 | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |
| hTRAIN_1      | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |
| hTRADEbeta_1  | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |
| hApo420pep    | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |
| Consensus     | MALKVILLEQ KTFFTILLVLL GYLSCKVTC SGDCCRQEEFR DRSGNCVPCN |

50

|               |   |
|---------------|---|
| 51            | QCGPGMELSK ECGFGYGEDA QCVTCRLLHFR KEDWGFQKCK PCLDCAVVNR |
| hTRADEalpha_1 | QCGPGMELSK ECGFGYGEDA QCVTCRLLHFR KEDWGFQKCK PCLDCAVVNR |
| hTRAIN_1      | QCGPGMELSK ECGFGYGEDA QCVTCRLLHFR KEDWGFQKCK PCLDCAVVNR |
| hTRADEbeta_1  | QCGPGMELSK ECGFGYGEDA QCVACRLLHFR KEDWGFQKCK PCLDCAVVNR |
| hApo420pep    | QCGPGMELSK ECGFGYGEDA QCVTCRLLHFR KEDWGFQKCK PCLDCAVVNR |
| Consensus     | QCGPGMELSK ECGFGYGEDA QCVTCRLLHFR KEDWGFQKCK PCLDCAVVNR |

100

|               |   |
|---------------|---|
| 101           | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |
| hTRADEalpha_1 | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |
| hTRAIN_1      | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |
| hTRADEbeta_1  | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |
| hApo420pep    | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |
| Consensus     | FQKANCSATS DAICGDCCLPG FYRKTLLVGF QDMECVPCGD PPPPYEPHCA |

150

|                             |            |          |
|-----------------------------|------------|----------|
| APPROVED<br>BY<br>DRAFTSMAN | O. G. FIG. |          |
|                             | CLASS      | SUBCLASS |

## FIG. 1B

151

hTRADEalpha  
hTRAIN\_1  
hTRADEbeta\_1  
hapo420pep  
Consensus

SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK  
SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK

201

hTRADEalpha  
hTRAIN\_1  
hTRADEbeta\_1  
hapo420pep  
Consensus

KPSWLSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL  
KPSWLSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL  
KPSWLSLRSQD IQYNGSELSC LDRPQLHEYA HRACCQCRRD SVQTCGPVRL  
KPSWLSLRSQD IQYNETELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL  
KPSWLSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL

251

hTRADEalpha  
hTRAIN\_1  
hTRADEbeta\_1  
hapo420pep  
Consensus

LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI  
LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI

300

LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI  
LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI  
LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI  
LPSMCCEEAC SPNPATLGGC VHSAAASLQAR NAGPAGEMVP TFFGSLTQSI

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| CRAFTSMAN |           |          |

## FIG. 1C

|              | 301   | 350   | 400   | 401   | 423                       |
|--------------|---|---|---|---|---------------------------|
| hTRADEalpha  | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | ESGAIIHPAT QTSLQEA~~~     |
| hTRAIN_1     | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELA GEDIHSLNPE LESSTSLSDN | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | ESGAIIHPAT QTSLQVRQRL GSL |
| hTRADEBeta_1 | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | ESGAVIHPAT QTSLQVRQRL GSL |
| hApo420pep   | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | CGEFSDAWPL MQNPWMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLSDN | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | SSQDLVGGAV PVQSHSENFT ATDLSRYNN TLVESASTQD ALTMRSQLDQ | ESGA-IHPAT QTSLQ--QRL GSL |
| Consensus    |   |   |   |   |                           |



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | D.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

FIG. 2

TRADE- $\alpha$   
TRADE- $\beta$

ESGAI IHPATQTS LQEA  
ESGAI IHPATQTS LQVRQRLGSI  
| | |  
401 416 423

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

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FIG. 3

CRD1

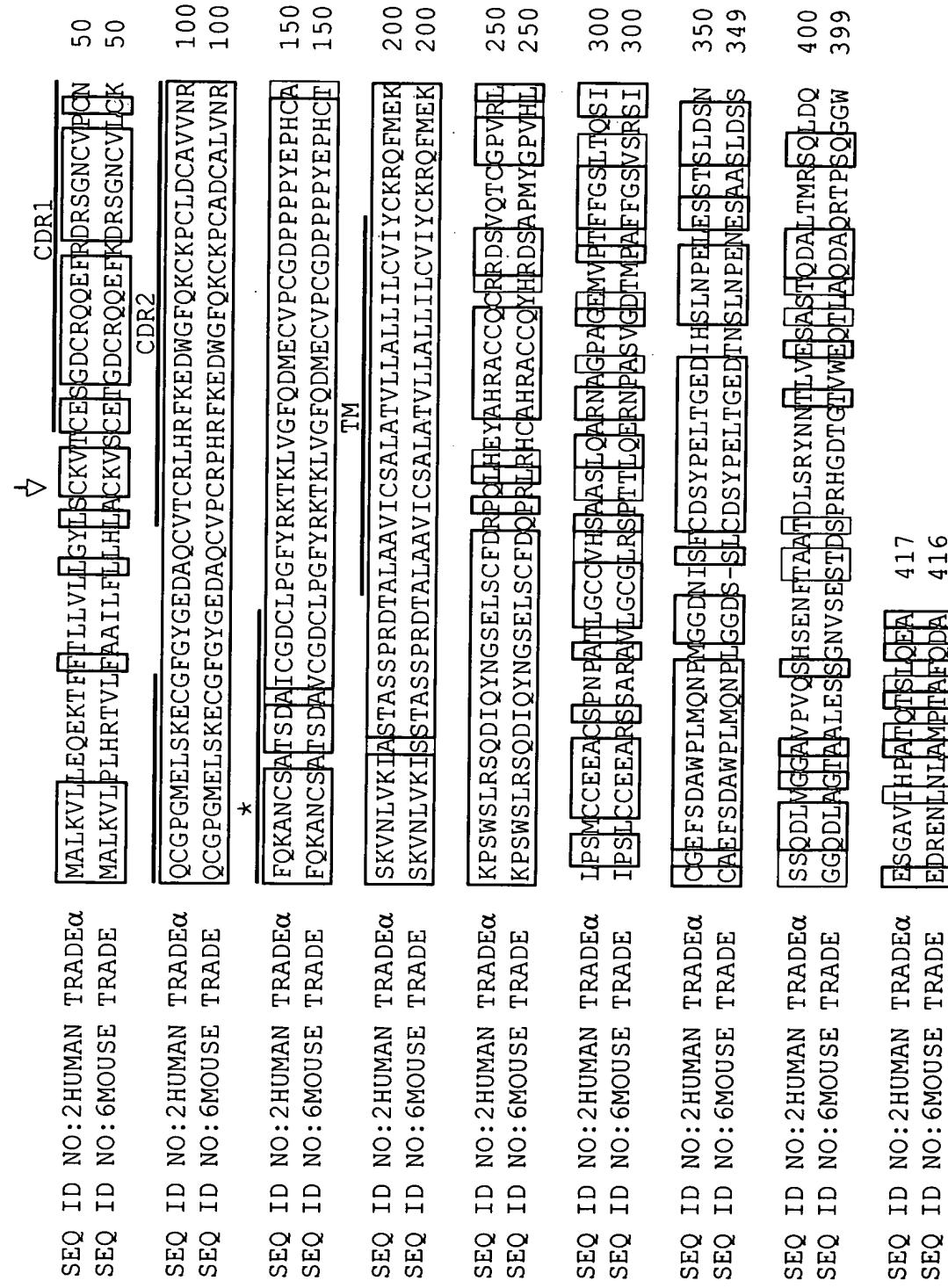
|         |           |            |            |             |
|---------|-----------|------------|------------|-------------|
| NGFRp75 | CPTGLYT.H | SGEC..CKAC | NLGEVVAQPC | .G.ANQTVCE  |
| OX40    | CGDTYP..S | NDRC..CHEC | RPGNGMVSRC | .SRSQNTVCR  |
| CD40    | CREKQYL.L | NSQC..CSLC | QPGQKLVSDC | .TEFTETECL  |
| TRADE   | CRQQEFRDR | SGNCVPCNQC | GPGMELSKEC | GFGYGEDACCV |

CRD2

|         |            |            |            |             |        |        |
|---------|------------|------------|------------|-------------|--------|--------|
| NGFRp75 | PCLDSVTFS  | DVVSATEPCK | PCTECVGLQS | MSAP...     | CVE    | ADDAVC |
| OX40    | PC..GPGFY  | NDVVSSKPCK | PCTWC.NLRS | GSERKQLCTA  | TQDTVC |        |
| CD40    | PCGES.EFL  | DTWNRETHCH | QHKYCDPNLG | LRVQQKGTSE  | T.DTIC |        |
| TRADE   | TCRLH.R.FK | EDWGFQK.CK | PCLDCAVVN. | .RFQOKANCSA | TSDAIC |        |

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

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|           |           |          |
|-----------|-----------|----------|
| APPROVED  | C.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| GRAFFSHAN |           |          |

FIG. 5A

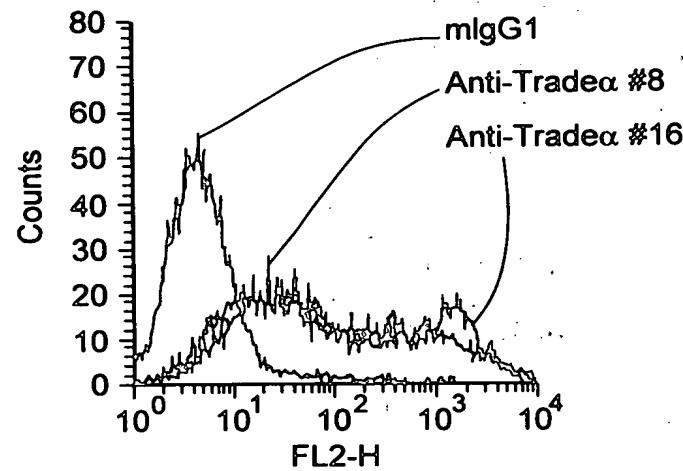


FIG. 5B

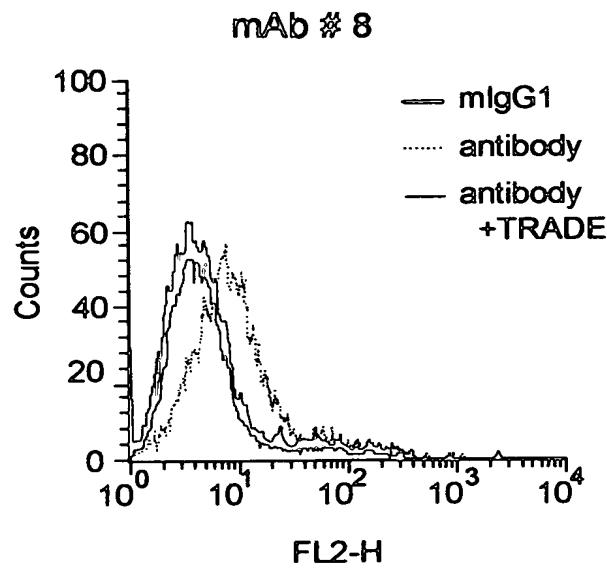
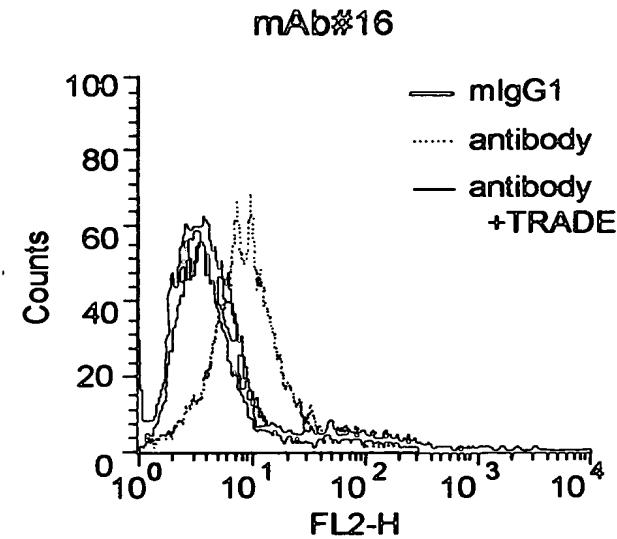


FIG. 5C



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

FIG. 6A

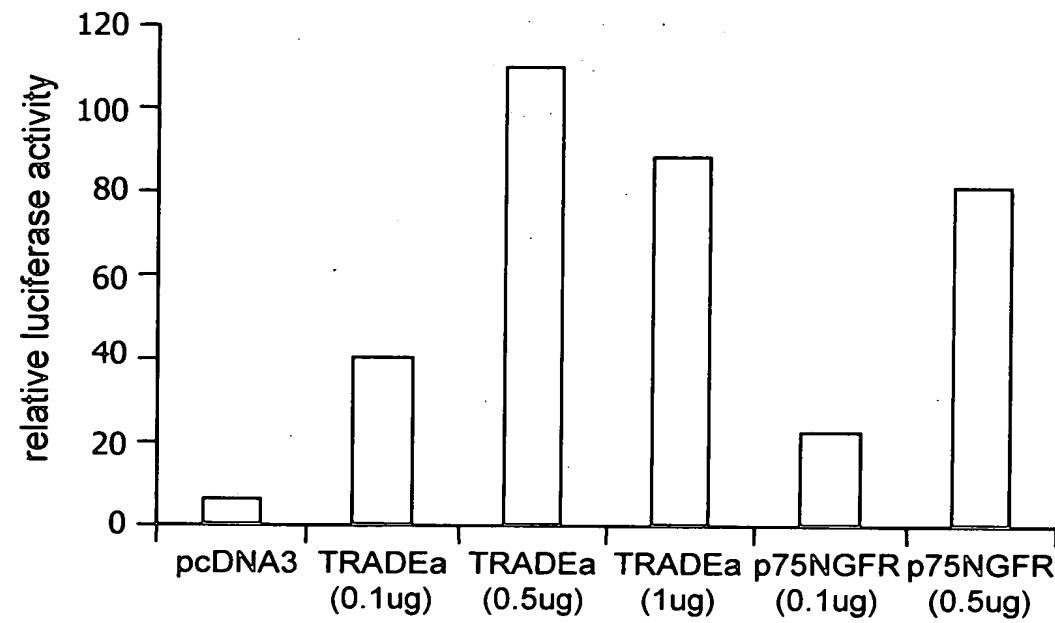
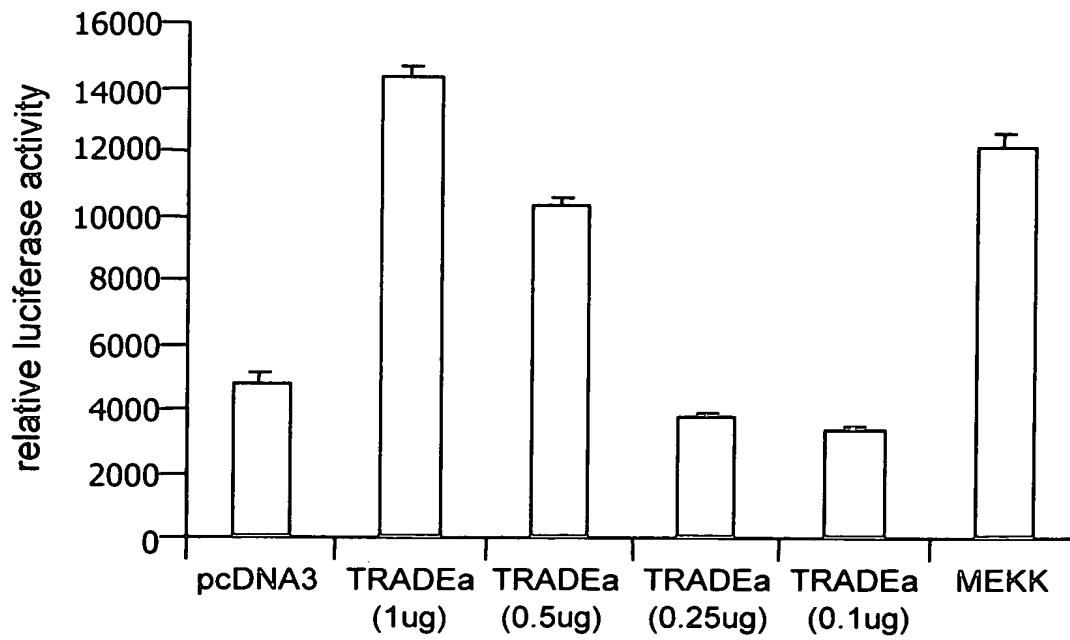


FIG. 6B



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

FIG. 7A

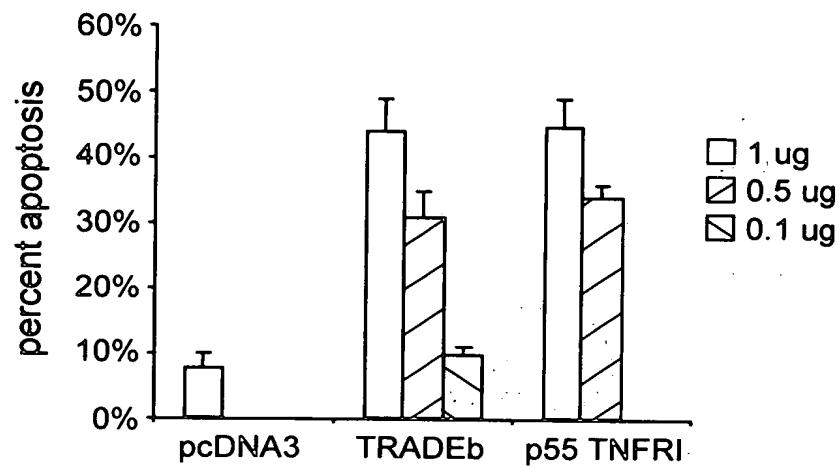
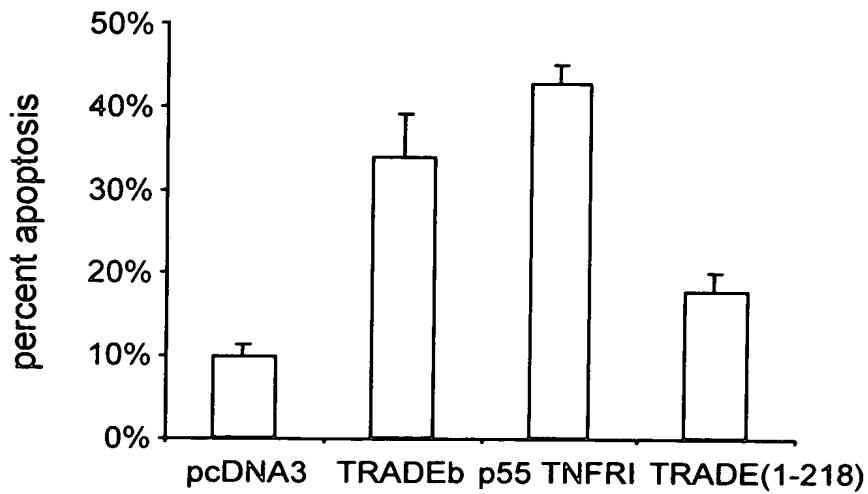


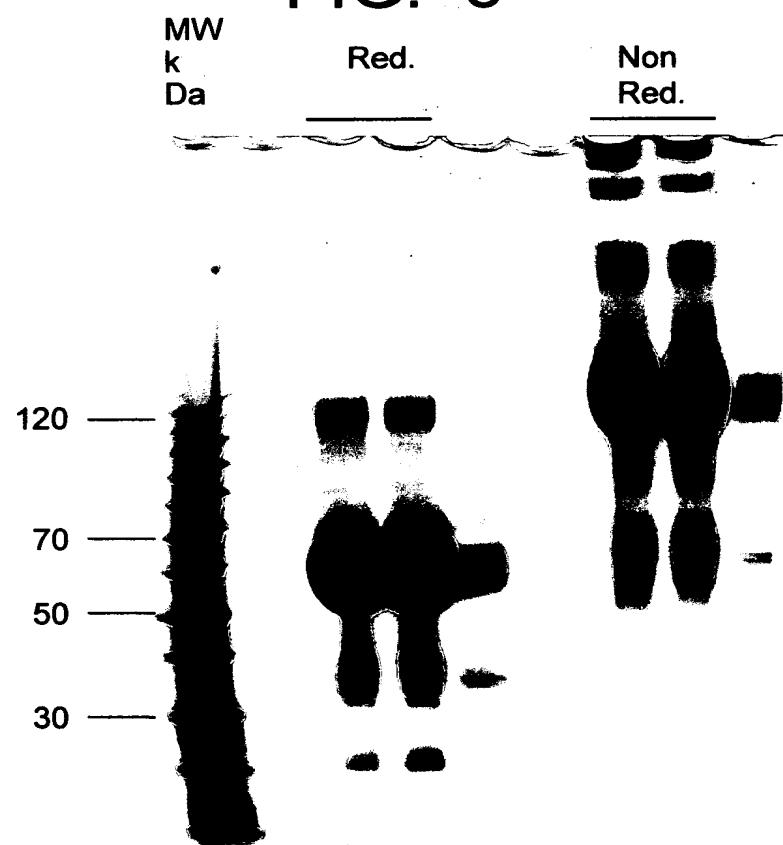
FIG. 7B



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

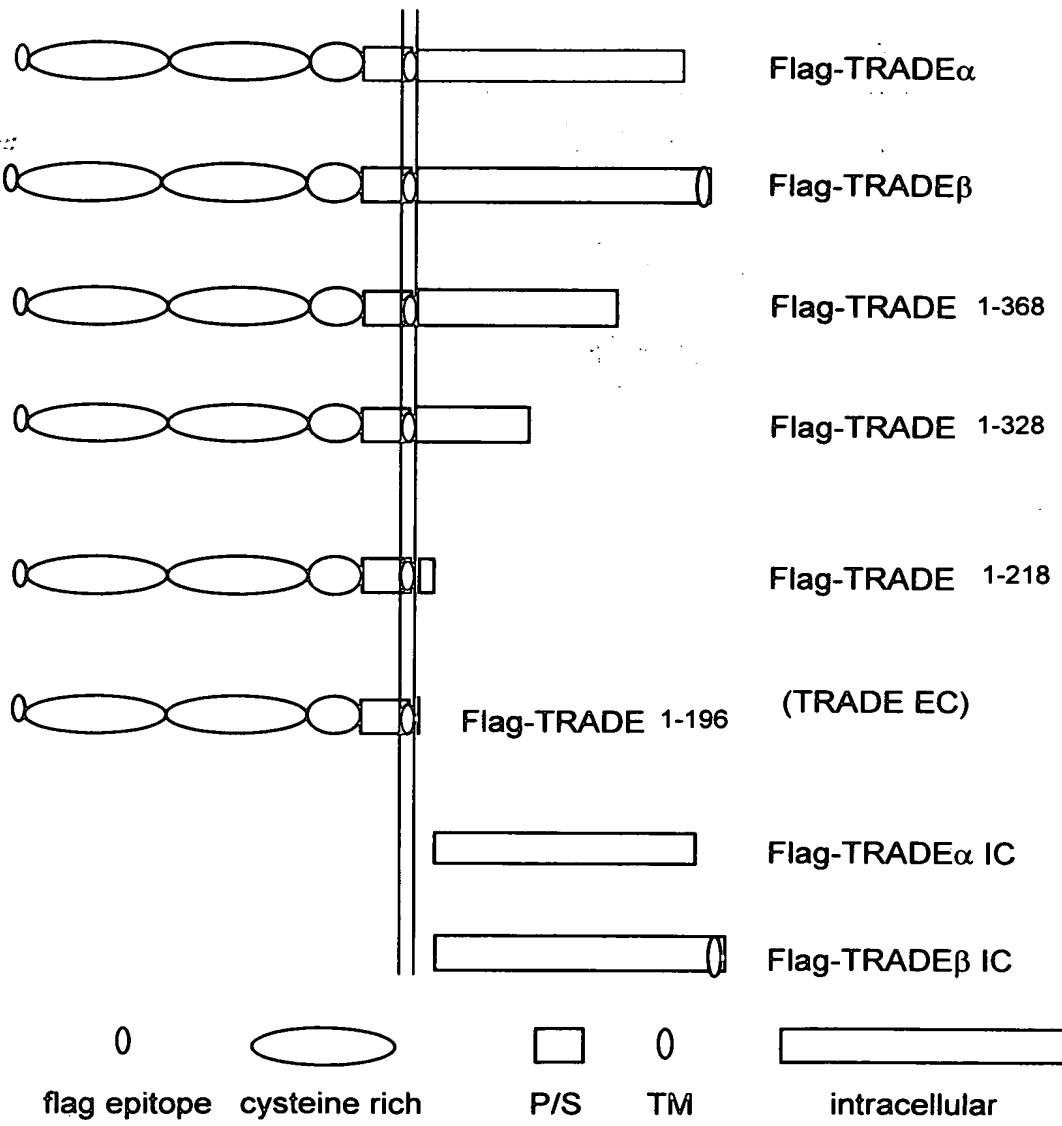
RECEIVED  
JULY 1974  
U.S. GOVERNMENT PRINTING OFFICE  
1974 7-120-1000

FIG. 8



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

FIG. 9

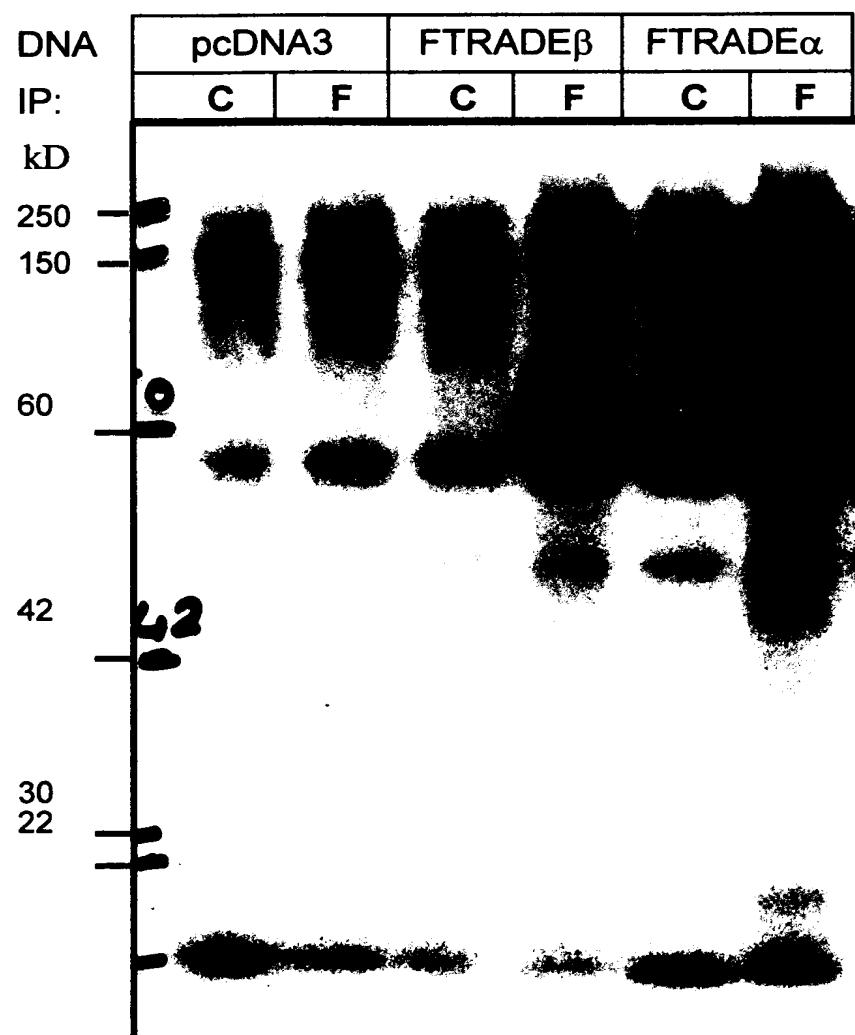


Deletion analysis

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

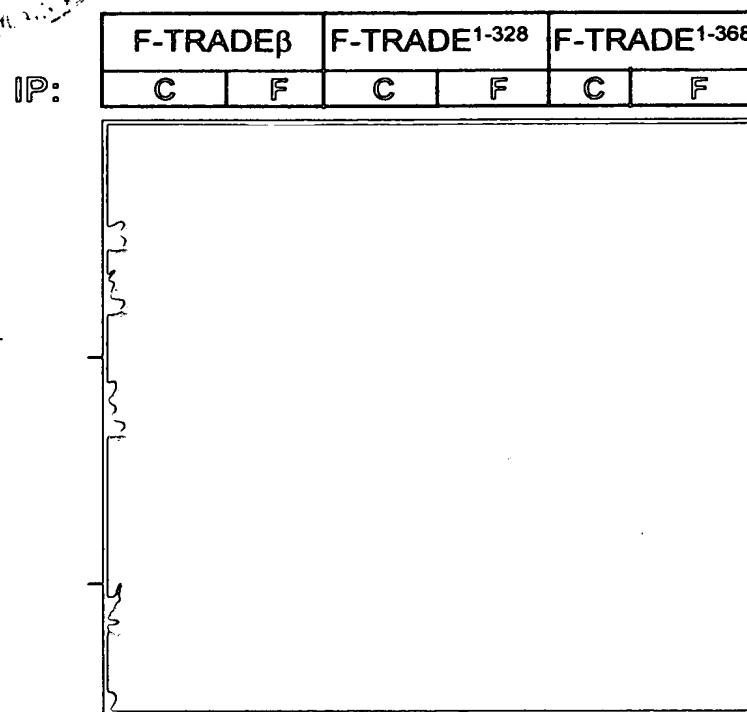


FIG. 10



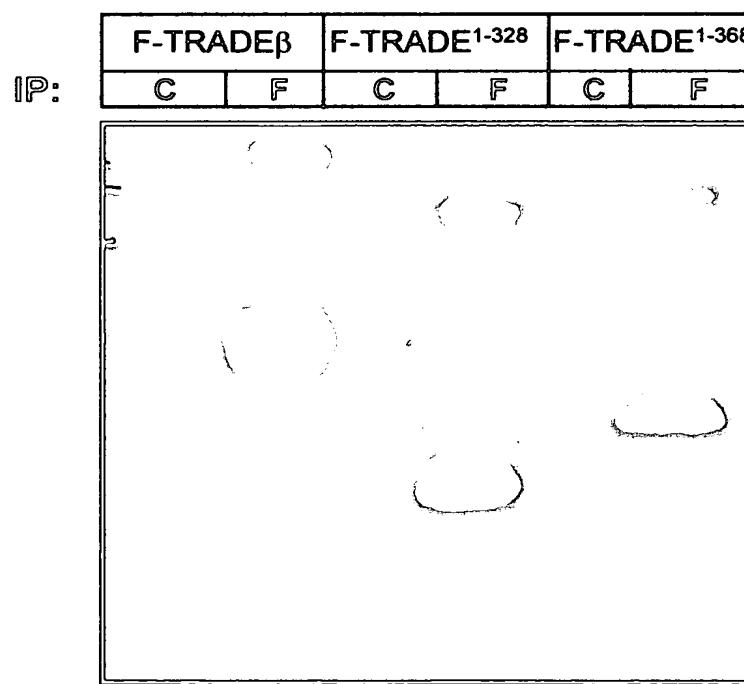
|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

FIG. 11A



Kinase assay

FIG. 11B



anti-Flag blot

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| CRAFTSMAN |           |          |

FIG. 12A

HA-TRAF6( $\Delta N$ ) +

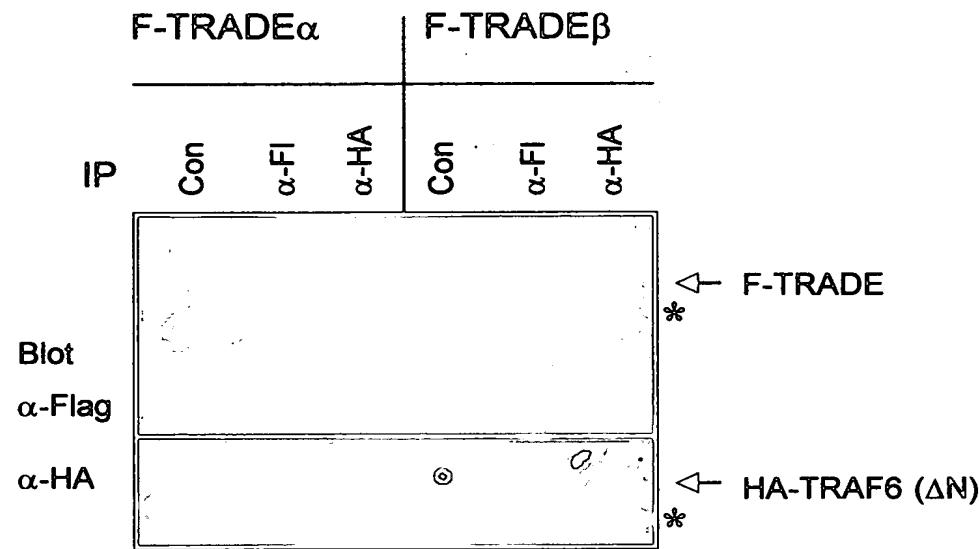
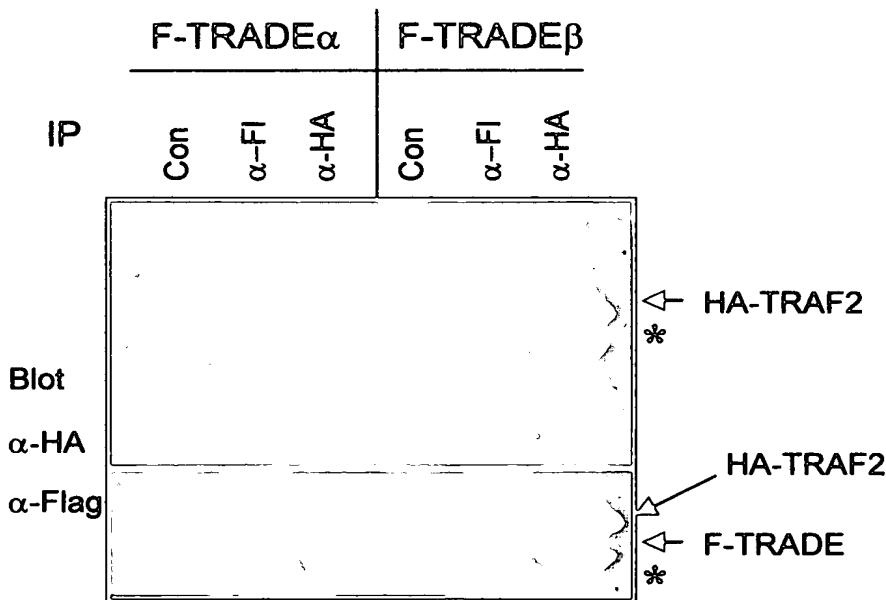


FIG. 12B

HA-TRAF2 +



|           |                |
|-----------|----------------|
| APPROVED  | O.G. FIG.      |
| BY        | CLASS SUBCLASS |
| DRAFTSMAN |                |

FIG. 13

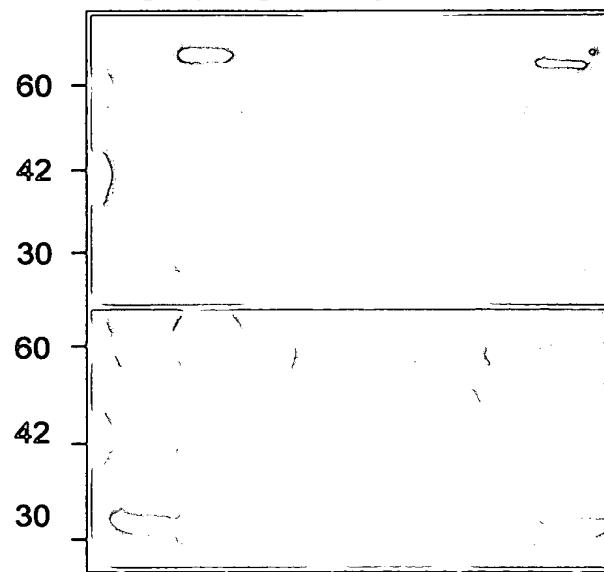
HA-TRAF3+

F-TRADE  
F-TRADE(1-218)  
F-TRADE(1-328)  
F-TRADE(1-368)

|   |   |   |   |
|---|---|---|---|
| + |   |   |   |
|   | + |   |   |
|   |   | + |   |
|   |   |   | + |

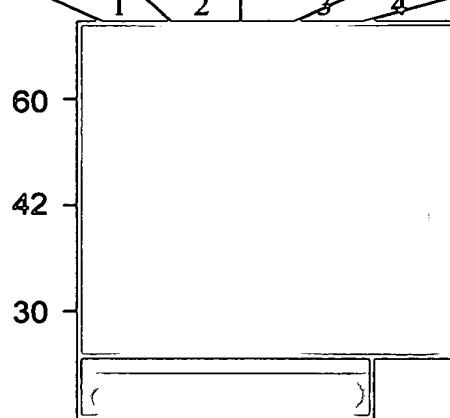
C F C F C F C F

IP



Blot:anti-HA

← F-TRADE  
← F-TRADE(1-368)  
← F-TRADE(1-328)  
← F-TRADE(1-218)  
Blot:anti-Flag



← F-TRADE  
← F-TRADE(1-368)  
← F-TRADE(1-328)

IP:anti-HA  
Blot:anti-Flag  
Blot:anti-HA

HA-TRAF3

|          |           |          |
|----------|-----------|----------|
| APPROVED | O.G. FIG. |          |
| BY       | CLASS     | SUBCLASS |
| DRAFTER  |           |          |

FIG. 14A

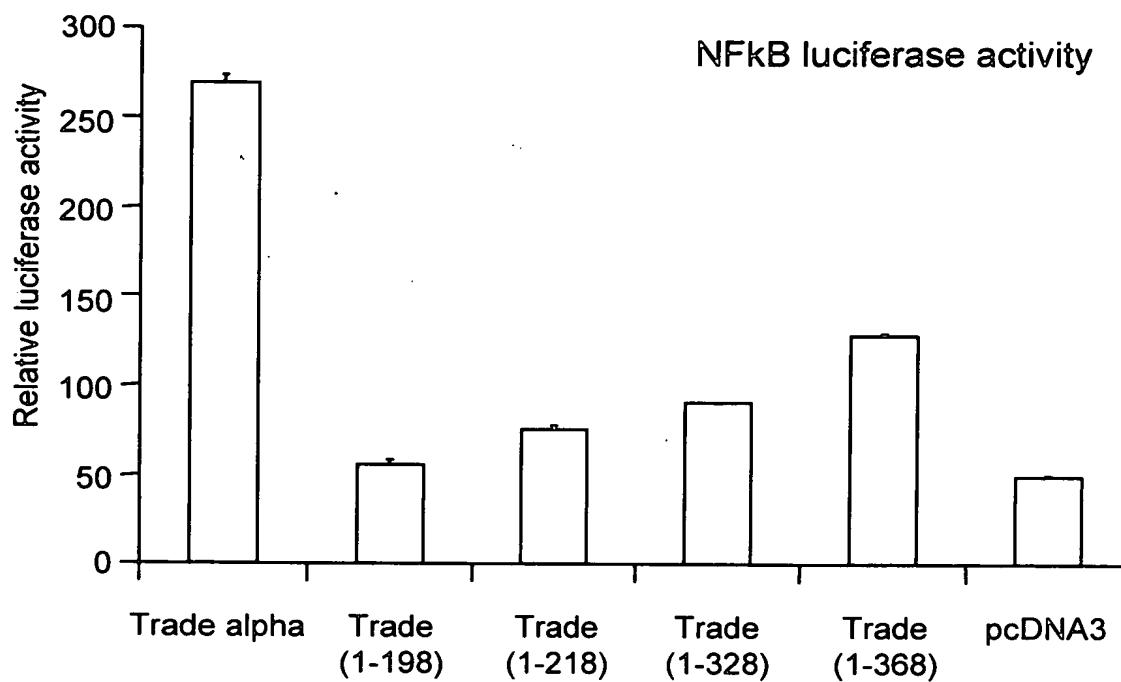


FIG. 14B

